

Intelligent electronics, particularly flexible, wearable, and body-attachable devices, have gained significant attention and market potential in various fields, such as healthcare monitoring, robotics, and the Internet of Things [1]. To meet the power requirements of these intelligent systems, energy storage devices must possess comprehensive advantages in ...

harvest the vibration-based mechanical energy, four techniques including electromagnetic induction,[15] MEMS-based electrostatic energy harvester,[16] magnetostrictive actuator,[17] and piezoelectric resonator[18,19] are developed. These energy harvesting units need to be equipped with an extra energy storage module (e.g., capacitor).

Through analysis of development history, operational status and key technology of pumped storage power stations in Japan, in consideration of characteristics in regional operational mode of China South Grid (CSG), this paper puts forward three suggestions on the construction of pumped storage power stations in CSG: to increase the allocation percentage of the pumped ...

Sub-100 nm hollow carbon nanospheres with thin shells are highly desirable anode materials for energy storage applications. However, their synthesis remains a great challenge with conventional strategies. In this work, we demonstrate that hollow carbon nanospheres of unprecedentedly small sizes (down to ~32.5 nm and with thickness of ~3.9 ...

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Energy Storage Materials, 2024, 68, 103344. 363) Yue Zhu, Shuo Li, Ning Fu, Hao Wang, Dayong Tian, Yong Zheng, Jing ... 362) Ding Chen, Hongyu Zhao, Ruohan Yu, Kesong Yu, Jiawei Zhu, Jixiang Jiao, Xueqin Mu, Jun Yu, Jinsong Wu, Shichun Mu\*. Heteroanion induced structural asymmetry centered on Ru sites switches the rate-determining step of ...

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